

Quick Start Guide: OASIS Mapping Tool

Example Question: “Show me which counties in Georgia have a high percentage of low birthweight (<2,500 grams), and then, for one of those counties, show me the areas within that county that may be contributing most to the county’s overall high percentage.” The rationale is to practice more efficient allocation of resources.

- 1) Begin by opening OASIS at <http://oasis.state.ga.us/>.
- 2) Under the **Maternal / Child Health** section, click on **Births**.

OASIS ONLINE ANALYTICS
Tools for Public Health
Accessing the Geographic Data

Create tables, maps or charts of health data

Dashboards

- Community Health Needs Assessment
- Leading Causes of Death

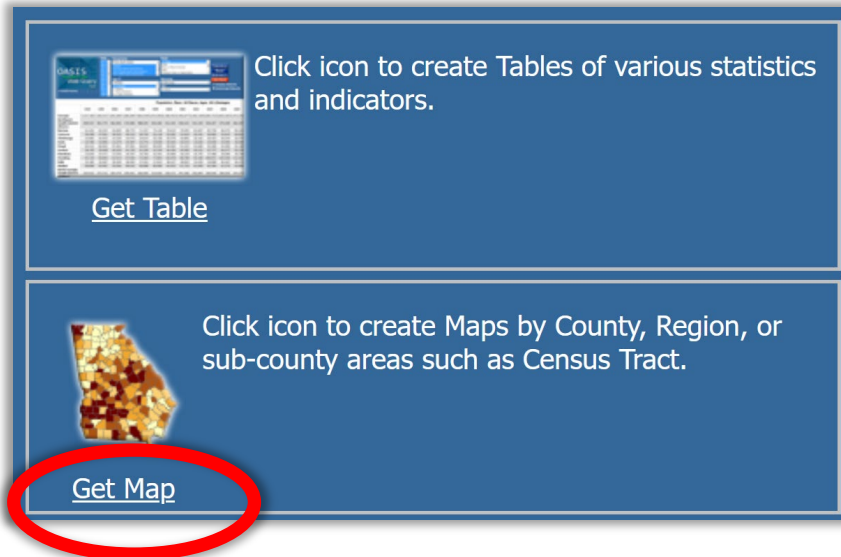
Mortality/Morbidity

- Mortality
- Hospital Discharge
- Emergency Room Visits
- Ambulatory Care Sensitive Conditions
- Sexually Transmitted Infections
- Drug Overdoses
- Drug Overdoses
- Alzheimer's Disease
- Dementia (ADRD)

Maternal/Child Health (MCH)

- Births
- Fetal Deaths
- Pregnancies
- Maternal Deaths

3) Next, choose “Get Map”



Click icon to create Tables of various statistics and indicators.

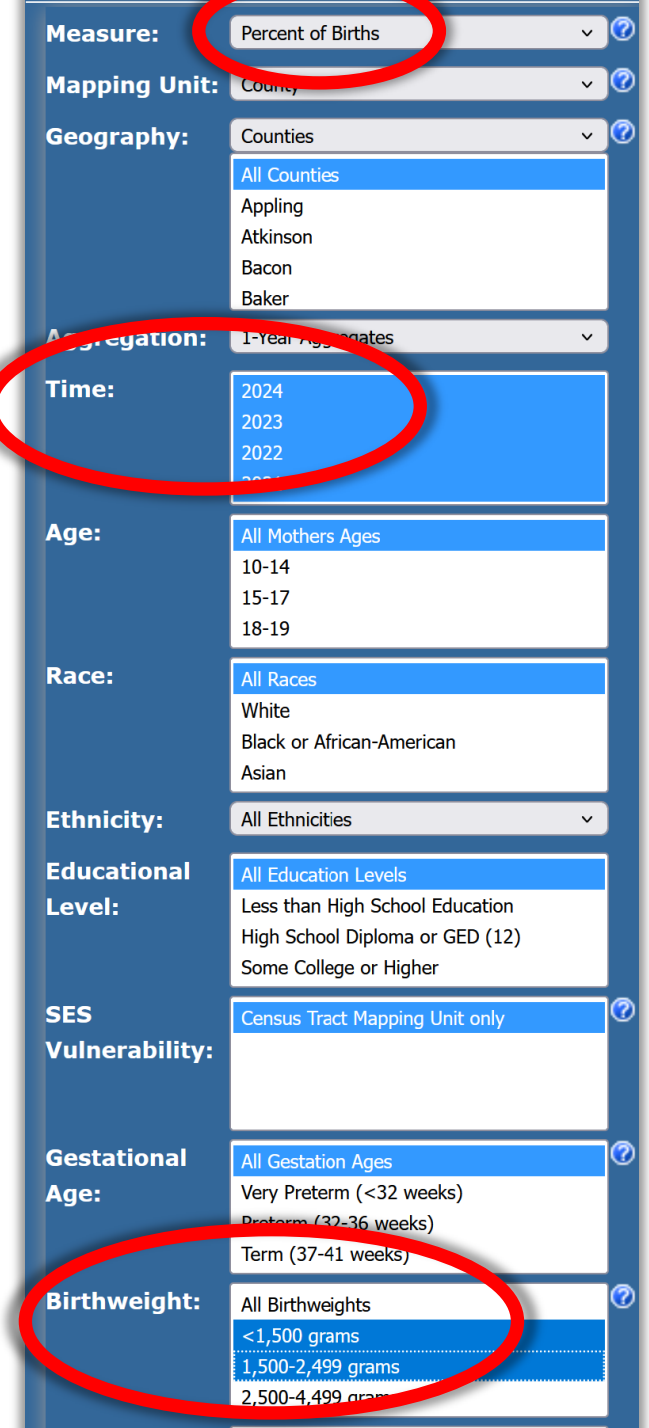
Get Table

Click icon to create Maps by County, Region, or sub-county areas such as Census Tract.

Get Map

4) On the Query Screen: Make these 3 selections:

- Change Number of Births to Percent of Births.
- Select the Years you'd like.
- Select both <1,500 grams and 1,500-2,499 grams (Low Birthweight).
- Finally, click **Get Map!** at the bottom.



Measure: Percent of Births

Mapping Unit: County

Geography: Counties

- All Counties
- Appling
- Atkinson
- Bacon
- Baker

Aggregation: 1-Year Aggregates

Time: 2024, 2023, 2022

Age: All Mothers Ages

- 10-14
- 15-17
- 18-19

Race: All Races

- White
- Black or African-American
- Asian

Ethnicity: All Ethnicities

Educational Level: All Education Levels

- Less than High School Education
- High School Diploma or GED (12)
- Some College or Higher

SES Vulnerability: Census Tract Mapping Unit only

Gestational Age: All Gestation Ages

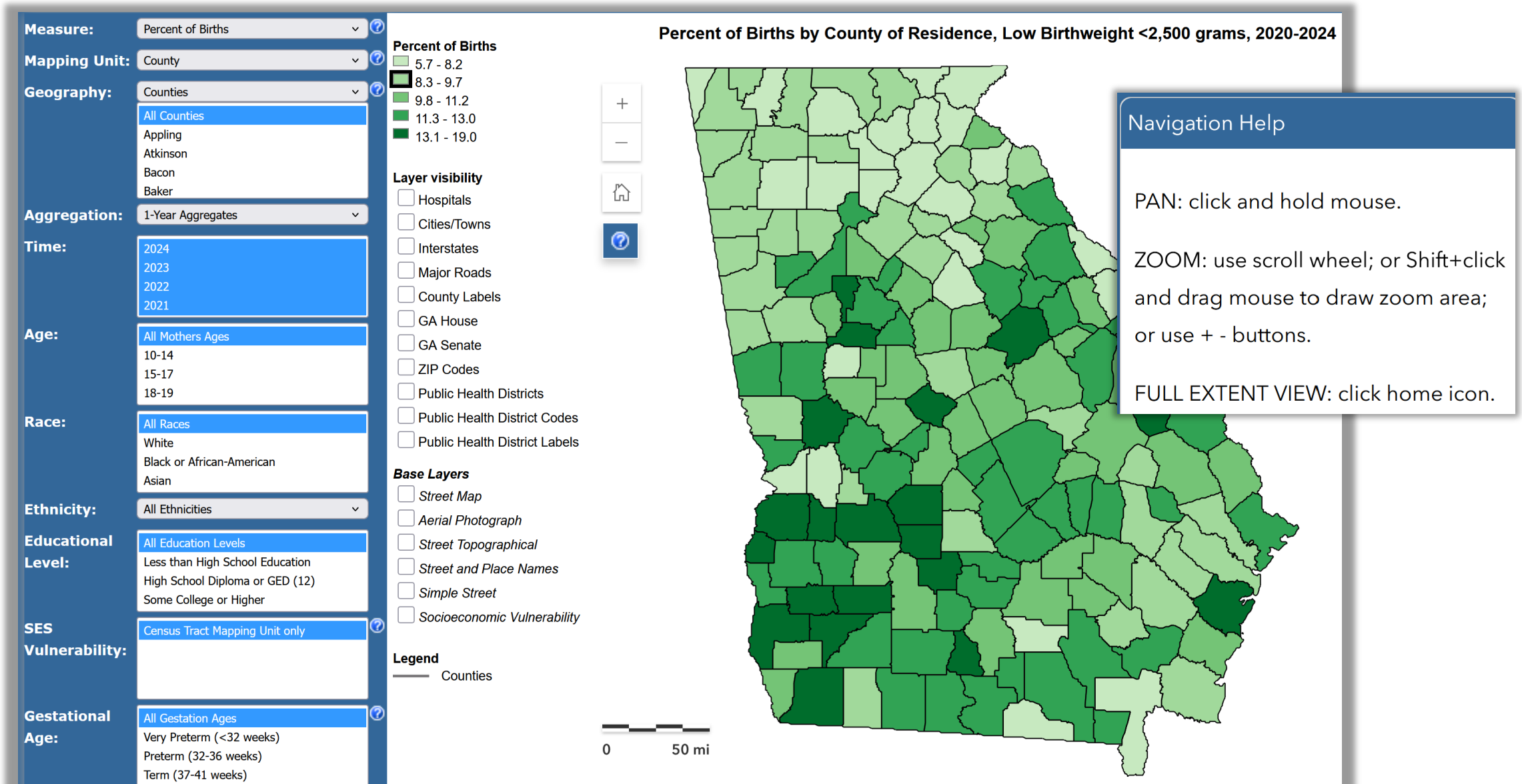
- Very Preterm (<32 weeks)
- Preterm (32-36 weeks)
- Term (37-41 weeks)

Birthweight: All Birthweights

- <1,500 grams
- 1,500-2,499 grams
- 2,500-4,499 grams

Get Map!

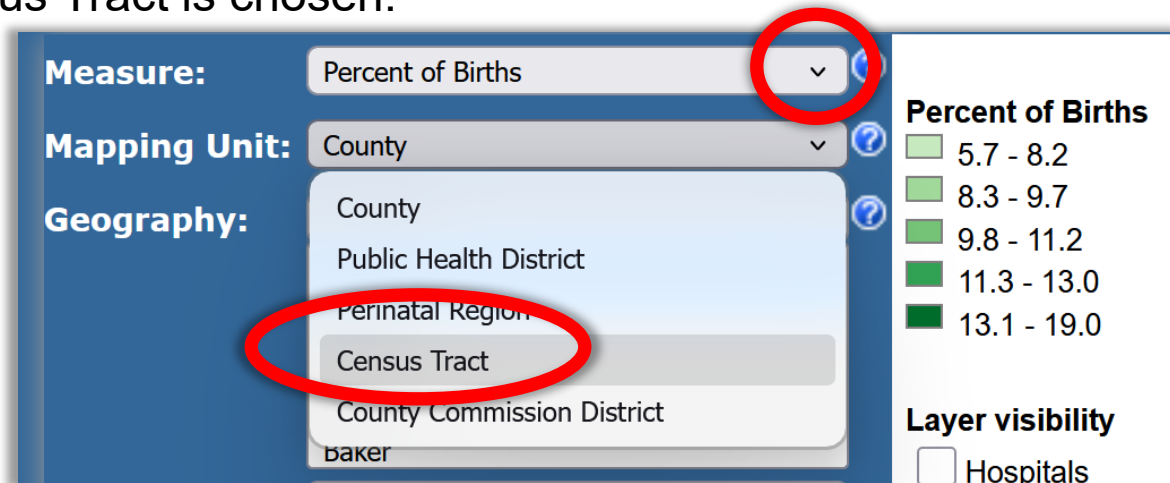
5. Below shows the output. Consult the Navigation Help to Pan or Zoom.



6) Let's say you wanted more geographic detail for a particular county. In this example, Muscogee County is chosen for a closer look...

If you live in Columbus, you may be interested to see if there is spatial variation of Low Birthweight (LBW) within Muscogee County. But where within Muscogee county are percentages the highest? Are there certain 'hot spots' that contribute a disproportionate share of LBW to the overall county percentage, or is the distribution of LBW spread evenly throughout the county?

7) The first step to answer questions about spatial variation within a county is to change the **Mapping Unit** from County to for example Census Tract. Click the down-arrow next to county: Notice the options. Below Census Tract is chosen:



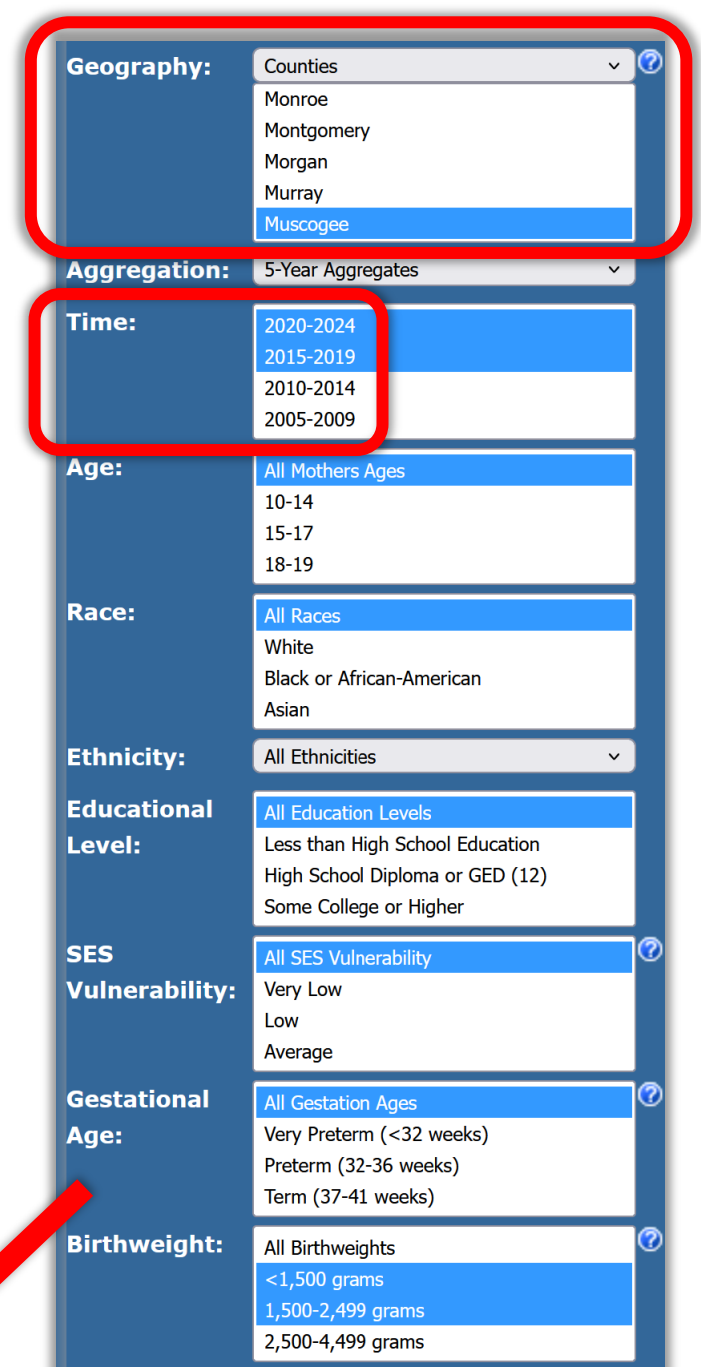
8) Once the Mapping Unit is changed from County to Census Tract, make the remaining choices:

Under Geography, you can type the letter “M” to get you quickly to counties that start with M. Select Muscogee.

Under Time, if Census Tract is your Mapping Unit, Years become pre-aggregated into 5-year groups. Select the latest two groupings of years.

Your birthweight selection remains the same.

And finally, click  .

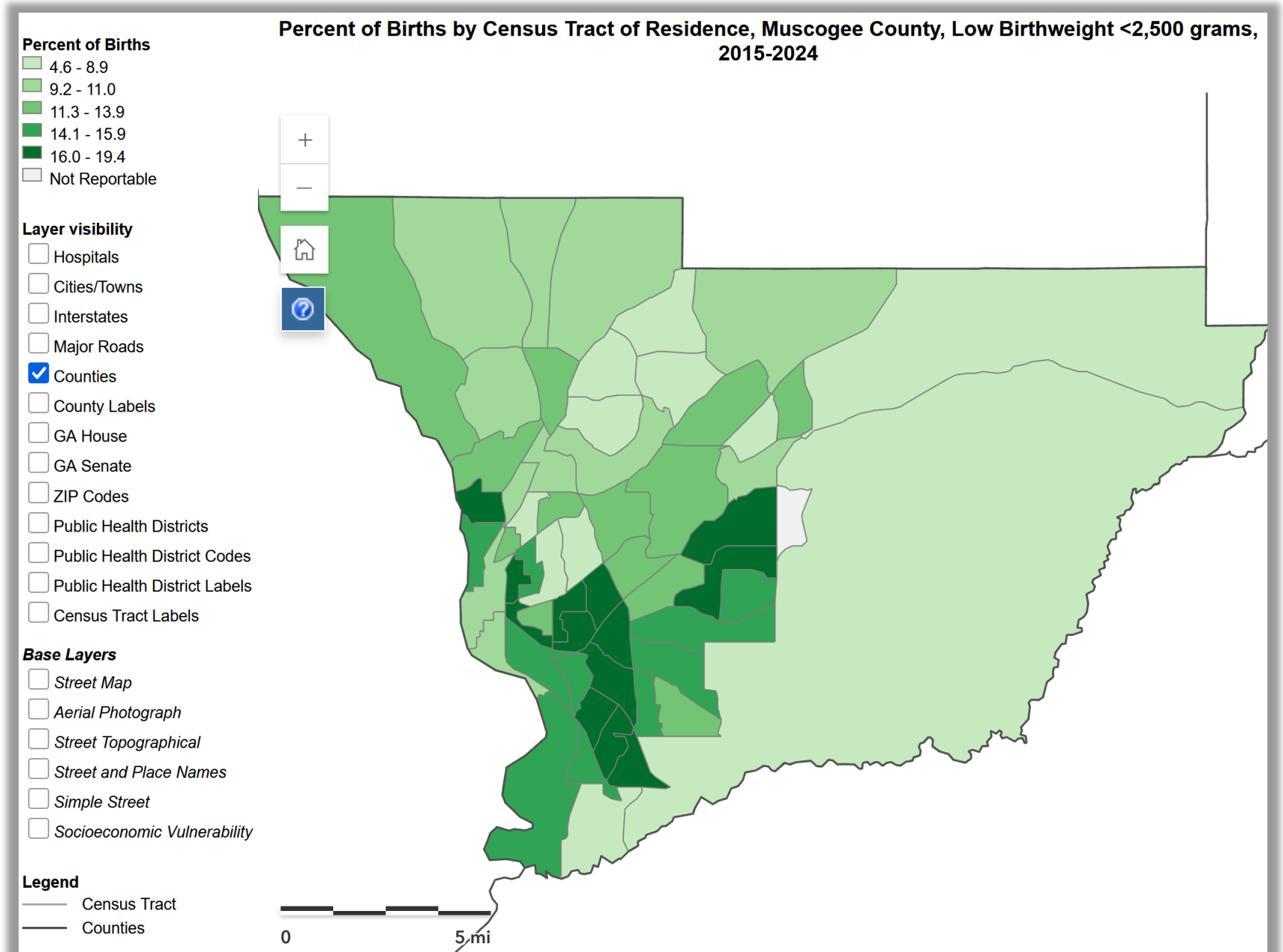


The screenshot shows a vertical list of filter categories on a blue background. Each category has a dropdown menu with several options. The following table summarizes the visible options for each category:

Category	Options
Geography	Counties (dropdown), Monroe, Montgomery, Morgan, Murray, Muscogee (selected)
Aggregation	5-Year Aggregates (dropdown)
Time	2020-2024 (selected), 2015-2019, 2010-2014, 2005-2009
Age	All Mothers Ages (selected), 10-14, 15-17, 18-19
Race	All Races (selected), White, Black or African-American, Asian
Ethnicity	All Ethnicities (dropdown)
Educational Level	All Education Levels (selected), Less than High School Education, High School Diploma or GED (12), Some College or Higher
SES Vulnerability	All SES Vulnerability (selected), Very Low, Low, Average
Gestational Age	All Gestation Ages (selected), Very Preterm (<32 weeks), Preterm (32-36 weeks), Term (37-41 weeks)
Birthweight	All Birthweights (selected), <1,500 grams, 1,500-2,499 grams, 2,500-4,499 grams

A large red checkmark is positioned to the left of the bottom of the filter list.

9) The result shows Census Tracts within Muscogee County that have the highest percentages of Low Birthweight. (These areas *may* be contributing most to the overall county rate. A separate query on number of LBW births would help answer this question.)



10) Use Navigation to Pan or Zoom to find a specific area within the county.

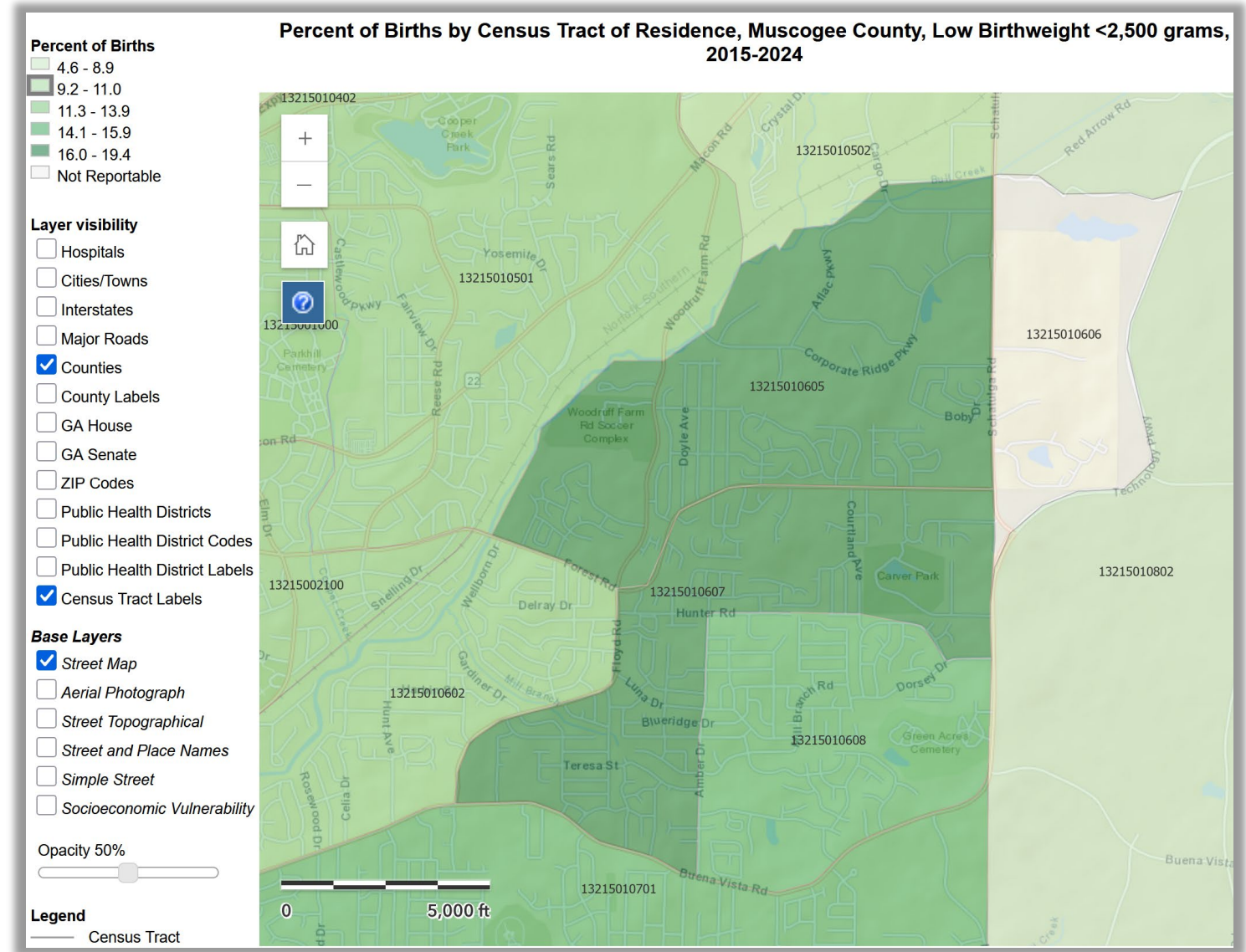
Navigation Help

PAN: click and hold mouse.

ZOOM: use scroll wheel; or Shift+click and drag mouse to draw zoom area; or use + - buttons.

FULL EXTENT VIEW: click home icon.

11) To the right is a zoomed-in area, with Census Tract Labels and Street Map options checked:



Further considerations: With such information, a framework is established to **practice more efficient allocation of resources**, and to help answer other questions such as:

What do tracts with the highest rates of LBW have in common?

Are these high-percentage areas predisposed to have Lower Birthweight babies?

Are there environmental, lifestyle, biological, or access to care factors at work?

12) Once you get the map with the options you want, click on the **Save/Print** button. You will see a formatted map open in a new tab suitable for using in a presentation or other documents. You can right-click the image and 'save image as' a png image.

The **Definitions** button will provide more detail on the measures and indicators found in the OASIS Mapping Tool.

Thank you!